

#### **California State Board of Equalization**

450 N Street, Sacramento, California

## Mold Remediation – 11<sup>th</sup> Floor Closure Report Addendum (Revised)

Project No. 2372.02-572

#### **Prepared for:**

California Department of General Services 707 Third Street, 3-305 Sacramento, California 95605

#### Prepared by:

Chris Corpuz, MS, CIH, CAC Senior Associate LaCroix Davis LLC

Closure Report Date: December 8, 2009

Addendum Date: October 31, 2012

Addendum Revision Date: January 9, 2013

Please insert this
Closure Report Addendum
into the rear of the
Floor 11 Closure Report

#### 1.0 Introduction

On October 8, 2009, LaCroix Davis LLC (LCD) and the Department of General Services Mold Remediation Project Team completed the mold remediation activities initially scheduled for Floor 11 of the Board of Equalization (BOE) building located at 450 N Street, Sacramento, California. At the completion of these activities, a closure report for this floor was compiled by LCD to summarize key events of the project.

Subsequent to the completion of the closure report, a need for additional investigation and/or remediation activities was identified. Identified areas were subjected to sampling. Using a combination of surface tape lift and/or bulk samples, LCD tested stains on walls and other building materials to determine if the stains were indicative of mold growth. The sample locations are depicted in a revised Figure 2 attached to this addendum.

Any information not previously available and information documenting additional mold-related activities was compiled by LCD.

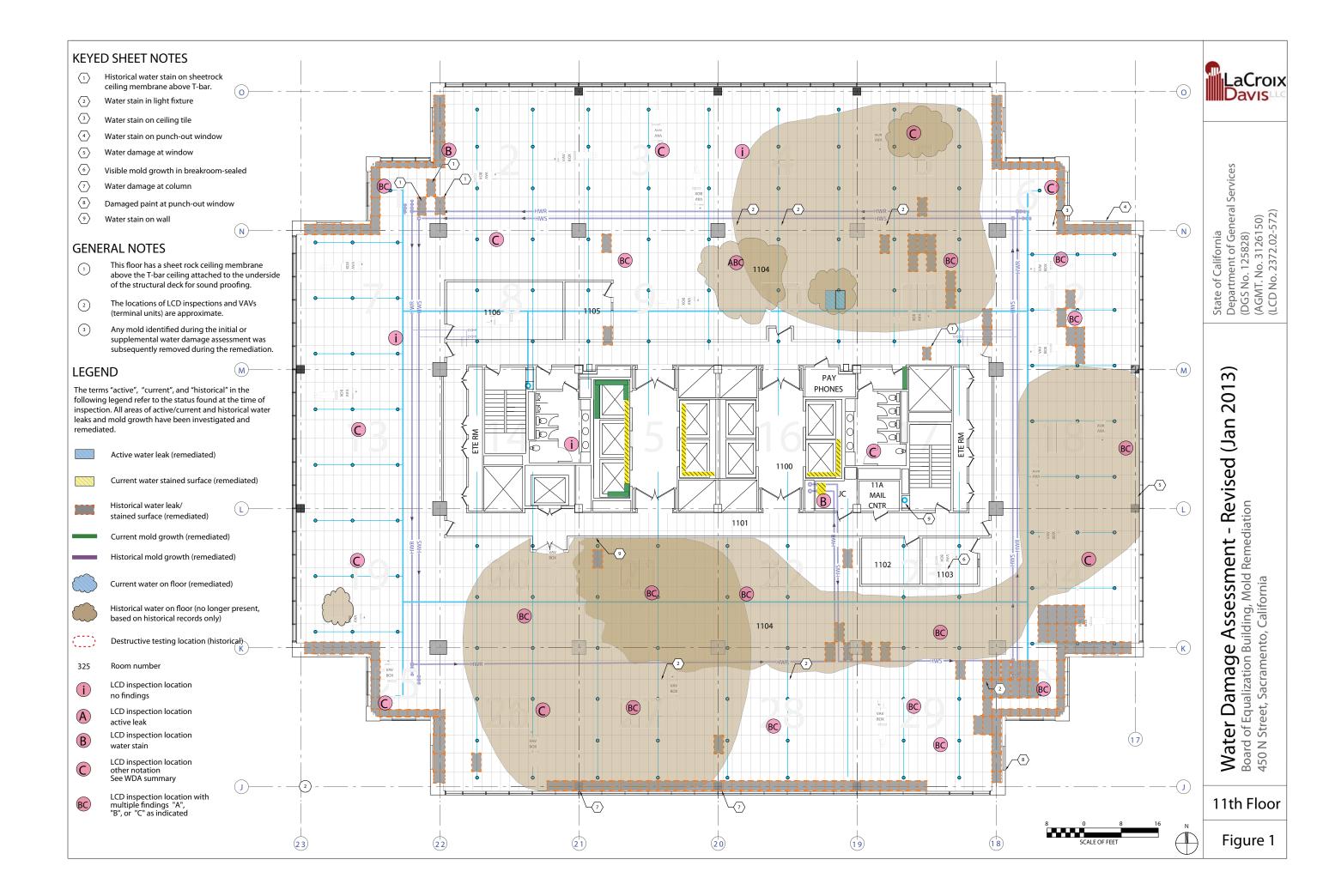
#### 2.0 Additional Activities

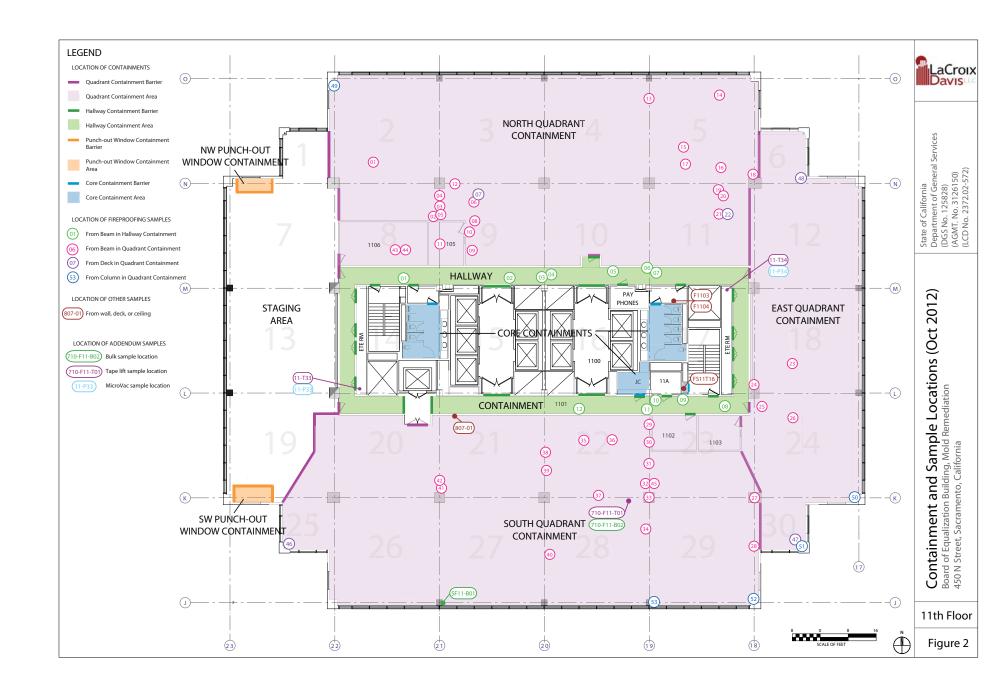
Additional mold-related activities performed on this floor after completion of the floor closure report include:

April 2010	Inspection, testing, and remediation (SE stairs containment).
Fire Sprinkler Riser Cabinet	

May 2011	Inspection of stained ceiling tiles above ceiling. Stained
Column J-21, S Perimeter Wall	fireproofing tested unremarkable. Stained ceiling tiles were
	replaced and stained fireproofing was marked.

	1 0
July 2011	Inspection and moisture testing of stained building materials
Column K-19	caused by water intrusion from leaking cooling coils on the
	Mechanical Floor above. Wet gypsum board and associated
	insulation was removed. Remaining stained materials were
	marked.





# **Daily Logs**



### PROJECT LOG

DATE: 4/16/10

LACROIX DAVIS LLC 3685 MT. DIABLO BLVD. SUITE 210 LAFAYETTE, CA 94549 TEL 925-299-1140 FAX 925-299-1185

PAGE / OF Z

Client	(DGS)	Environmental	Weekend/Holiday			
Project	Board of Equalization (BOE)	Location(s):	Floor 6 Floor 8 Floor 9 Floor 11			
Building	450 N Street, Sacramento CA	Compound(s) of Concern	ACM LBP			
LCD Project # - Task 2372.0 2 -572; SOW 5.0 Description: Floor 6 Containman						
LCD Project #-Task 2372.0 2 -572; SOW 4.0 Description: Floor 6 Supp WDA						
LCD Project # -Task	2372.0 <u>3</u> -572; SOW <u>5.6</u>	Description: Fix	ersers 11,9,8			
1. Type of Containment: NPE Mini Barrier Tape Minor Procedures HEPA  2. Type of Decon: Shower 2-Stage 1Stage Drop Sheet W/Vacuum None  3. Manometer? Yes No Strip Chart Record? Yes No Adequate Pressure? Yes No Comments Below.  4. Containment Entry Log? Yes No  5. Containment and Decon maintained in accordance with accepted practices and procedures? Yes No Comment below.  6. Negative Air Machines and/or HEPA Vacuums Aerosol Challenge Tested?  7. Negative Air Exhaust Location: Window Smoke Shaft Stairs Unoccupied Space  8. Site Security: You Smoke Shaft Stairs Unoccupied Space						
	2, 21, 2 =	32 111	To a			
SUMMARY OF ACTIVITIES  Mob/Demob V Prep Removal Waste Load Out Detail Clean Encapsulation Clearance Testing Tear Down  Visual Inspections: Pre-Abatement Pre-Encapsulation Pre-Clearance Post Tear Down  Comments: Floor & supplemental Water Samuel Core plements to the floor of the						
Contractor Worker Exposu	re Monitoring? # Workers Sampled	4.				

	-
PERSONAL EXPENSES:  Hotel: Per Diem: Travel: Destination: ate \$ lab	
FIELD SUPPLIES: PPE: Suits Gloves (pairs) Respirator filters: Misc:	
LAB EXPENSES: Type/No. Samples collected: Tape 3 Bulk   Air	
Laboratory Name:	
TMI # AM Notes	1
denum , la Mail Storage	d.
7:00 checkhaboue men's, women's, storage 6 B and Horage	
9:00 walk PH elwator equip room project w/ K. Firchau	
to determine appropriate approach to open access	
for contractor I mini containment and open for inspect	20
pased on conditions - access or clean then access.	
9:00 supplemental WDA continues - carpet tile (3'x3') glue down	2
inspect us HTI WF	
10: Continue Carpet till investigation w/ HTI WF and TCS	
11:49 break - deliver Samples to lab for same Day	
12:45 JLS began removal in men's & women's restrooms	
inspect confamments - observe Conditions & photo doc	47T
13:30 inspect ment women containments to photo coc	55
Monday WPA well continue Monday AN.	
13,00 pres completed on Storage C ready for Remoral Wonlay 4	4/1
SE Stairwell	V
17:15 Gal Arres floors 9,10,11	
18:00 Crew begins setup	
19:26 Pholographed interior space from door of each contanuet	
(21:00 -2/48 propect of an ing below doon on 11 \$10	
19:46 inspect & photograph Encapsulated upper part of access down	50
2240 Inspect & photograph below door on 9th flow	
00142 Inspected chemied & Plots graphed with & 11 th floors	
01:09 final enapsolation inspector on the gration	
Signature Theory C Date 4/14/10 4-15-10	
1- Brita	



On-Site Visitors: 1. M. Harris

### PROJECT LOG

DATE: 5/20

LACROIX DAVIS LLC 3685 MT. DIABLO BLVD. SUITE 210 LAFAYETTE, CA 94549
TEL 925-299-1140 FAX 925-299-1185
LCD REPS: T M :

PAGE / OF Z

Client	Department of General Services (DGS)	Contractor: JLS Environmental	Day_V_Swing_ Weekend/Holiday_
Project	Board of Equalization (BOE)	Location(s):	FloorFloor FloorFloor_
Building	450 N Street, Sacramento CA	Compound(s) of Concern	Mold  ACM LBP Other
LCD Project#	2372.0 Z-572; SOW 5.0	Description: Flo	por l Cafeteri
LCD Project #	2372.0572; SOW	Description:	l
LCD Project #	2372.0572; SOW	Description:	
ONTAINMENT INFOR	MATION		
. Floor Occupied	Floor Vacant		
	nery Southo) c) d)	e)	f)
	nt: NPE / Mini Barrier Tape		
. Negative Air Exhau	st Location: Window Shaft Stairs Contractor Private 24 hour V Se	Interior Ext	erior
SUMMARY OF ACTIVI Mob_√_ Prep <mark>19:30</mark> Rer	TIES moval/Load Out √ Detail Clean Encapsulation	_ Clearance Testing Te	ar Dawn DoMoh
· · · · · · · · · · · · · · · · · · ·	al Inspection: Prep. 19:30, Removal Encaps	16	Tear Down

PERSONAL EXPENSES:	
Hotel: ✓ Per Diem: ✓ Travel: Destination: 5, te \$ lab × 2	_
FIELD SUPPLIES: PPE: Suits 2+2 Gloves (pairs) 2+2 Respirator filters: Misc:	
LAB EXPENSES: Type/No. Samples collected: Tape Bulk ! Air 4 + 4	toat
Laboratory Name/Location: EML P&K, W. Sacto	
Notes	
15:00 The mobilizes to cafeteria	
15:30 preo poems	
meet w M. Hoy & G. Biziell tow Floor 21, 22 \$ 23 to	
a suff decks and concrete/VCT alberive issues	-
19:50 removal of Growall begins, 41 43 of continument then	一二十
20:30 removal completed - basout begins	- 0
detail cleaning underway	
21:30 detail cleaning continues - Junch break	
22:15 Continue detail deaning	
00:00 detail cleaning continues (prep potencap)	
DO:45 Dockory final Migual Prior to estado	
00:47 begin encap and final vac/wipe down & vac	
00:30 denso	
County VAIG IN Hadland	9
H'1 1'1	-
3 Total Annual A	
Continuent barner	-
agte Servery	
10 301 101	
N N	
Signature Thursday Date 9/20	1-3
Signature 0 6 7 20 5/21/1	11



#### PROJECT LOG

DATE: 1/5/1

PAGE\_\_\_OF\_\_\_

Client	Department of General Services (DGS)	Contractor: JLS Environmental	Day M Swing // Weekend/Holiday
Project	Board of Equalization (BOE)	Location(s):	Floor // Floor Floor
Building	450 N Street, Sacramento CA	Compound(s) of Concern	Mold ACM LBP Other
LCD Project #	2372.0 2 -572; SOW 5.0	Description: M	
LCD Project#	2372.0 2-572; SOW 4.0	Description: //	- Water Stains
LCD Project#	2372.0572; SOW	Description:	
<ol> <li>Type of Containment</li> <li>Type of Decon: She</li> <li>Manometer: YesX</li> <li>Containment Entry Lo</li> <li>Containment and Decontainment and Vac</li> <li>Negative Air Exhaust</li> </ol>	C)	Minor Procedure Sheet W/Vacuum te Pressure: Yes/ N and procedures: Yes/ X No naust Duct Interior	res N/A None  O  ( No
Phase Completion Visual Summary/Other Activities  Conficult w/ of Miniple of Floor I  Waste: Non-Hazardous ( Container: 6 Mil De Location of Dumpster:	Tat lease - South avea w/HT AMPER access - Floor II w/HT Containment  Construction Debris Hazardous Waste Hazardous Waste Hazardous Barrel Drum Box	The state of the s	Tear Down
Respirator: Half Face	Full Face PAPR Supplied Air sure Monitoring Yes No # Workers Sample 2 3.		

# LaCroix Davis Project LOG Date: 7/5/1/

Page 2 of 2

PROJECT EXPENSES: Hotel: Ver Diem: Varavel: Ver Destination: Site \$ 1915
FIELD SUPPLIES: PPE: Suits Gloves (pairs) Respirator filters: Misc:
LAB: Type/No. Samples collected: Tape Bulk Air Laboratory Name/Location:
Notes
The 11 inspect chiller piping of floor of HTI of yes and clearance testing pamp 2 containment  13 CO C & Ellwey to lab  14 colf call of LCD & HTI  15 locate Plan plans/HVAL as builts in PH flextiles  16 break  170 inspect Floor II loak south area of HTI & BPM  180 inspect Fire Door Access panel ducting interior condition  4an installed by BPM of thempt to dry aftergal insulation  about GB deck may require additional efforts to dry out,  discuss will and pasificant motions,  review pump 2 results call TW
Signature Date



#### **PROJECT LOG**

DATE: 7/10/(1

LACROIX DAVIS LLC
3685 MT. DIABLO BLVD. SUITE 210
LAFAYETTE, CA 94549
TEL 925-299-1140 FAX 925-299-1185
LCD REPS: ;

PAGE\_\_OF\_2

Client	Department of General Services (DGS)	Contractor: JLS Environmental	Day V Swing Weekend/Holiday V
Project	Board of Equalization (BOE)	Location(s):	FloorFloor
Building	450 N Street, Sacramento CA	Compound(s) of Concern	Mold ACM LBP Other
LCD Project#	2372.0 2-572; SOW 97,0	Description:	uple & Mark FP
LCD Project#	2372.0572; SOW	Description:	
LCD Project #	2372.0572; SOW	Description:	
2. Containments: a)  3. Type of Containment  4. Type of Decon: Sho  5. Manometer: Yes  6. Containment Entry Lo  7. Containment and Dec  8. HEPA Fans and Vacc  9. Negative Air Exhaust  10. Security: Owner  SUMMARY OF ACTIVITI  Mob Prep Remo	Floor Vacant  b)	Minor Procedur  Drop Sheet W/Vacuum  dequate Pressure: YesNotices and procedures: Yes Yes No Interior Secure Building  Clearance Testing Teapsulation Clearance	NoneN/A
	Construction Debris Hazardous Waste ouble 6 Mil Barrel Drum Box		
Additional Worker PPE: D	Disposable Suit GlovesEye Protection Full Face PAPRSupplied Air_	Steel Toe Hard Har	tChem Apron

## LaCroix Davis Project LOG Date: 7/0///

Page Zof Z

PROJECT EXPENSES: Hotel: Per Diem: Travel: Destination:
FIELD SUPPLIES: PPE: Suits Gloves (pairs) Respirator filters: Misc:
LAB: Type/No. Samples collected: Tape Bulk Air Laboratory Name/Location: En V Ty K West Sucto
Notes
The Met wills & HTI to perform floor !! work - collect sample of stained FP - test FP for water content - o 18 sove marking of stained FP will prented paint 5:15 reschedule to 12500 notogy HTT 12:00 perform floor !! to 8ke of photodoc.
Signature Mer Mar Date 1/1911

# **Laboratory Reports**



9/26/2012

LaCroix Davis, LLC 3685 Mt. Diablo Blvd. Suite 210 Lafayette, CA 94549

#### To Whom It May Concern:

The following data qualifier is reported for all samples in which prior to the release, the replicate quality control sample was not completed:

"Analysis of replicate sample is delayed."

In all instances where this data qualifier was reported for LaCroix Davis, LLC projects "DGS-BOE", all replicate samples have since been analyzed and quality control reviews have been completed. All reported data should therefore be considered accurate and final.

Please feel free to contact me if you have any further questions in this regard.

Sincerely,

Dr. Kamashwaran Ramanathan

Laboratory Director



Report for:

Mr. Chris Corpuz, Mr. Ted Ice, Mr. Ashley McKinley, Ms. Andrea Steinbach LaCroix Davis, LLC 3685 Mt. Diablo Blvd. Suite 210 Lafayette, CA 94549

Regarding: Project: DGS-BOE; Fire Riser Cabinets

EML ID: 649057

Approved by:

Lab Manager Malcolm Moody Dates of Analysis:

Spore trap analysis: 04-17-2010

Service SOPs: Spore trap analysis (I100000)

For clarity, we report the number of significant digits as calculated; but, due to the nature of this type of biological data, the number of significant digits that is used for interpretation should generally be one or two. All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank corrections of results is not a standard practice. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Document Number: 200091 - Revision Number: 5

EMLab ID: 649057, Page 2 of 3

880 Riverside Parkway, West Sacramento, CA 95605 (866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: LaCroix Davis, LLC

C/O: Mr. Chris Corpuz, Mr. Ted Ice, Mr. Ashley

McKinley, Ms. Andrea Steinbach Re: DGS-BOE; Fire Riser Cabinets Date of Sampling: 04-17-2010 Date of Receipt: 04-17-2010 Date of Report: 04-17-2010

#### SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:		7-FR-A01: rior SW	Floor 9	7-FR-A02: SE Stairs abient	Floor 9	7-FR-A03: SE Stairs ainment	Floor 10	7-FR-A04: SE Stairs abient
Comments (see below)	A		A		В		A	
Lab ID-Version‡:	2876215-1		2876216-1		2876217-1		2876218-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria				_				
Arthrinium								
Ascospores*	4	210						
Aureobasidium								
Basidiospores*	25	1,300						
Bipolaris/Drechslera group Botrytis		,						
Chaetomium								
Cladosporium	5	270						
Curvularia	<u> </u>	210						
Epicoccum								
Fusarium								
Nigrospora								
Oidium								
Other brown								
Penicillium/Aspergillus types†	3	160						
Pithomyces								
Rusts*	1	13	1	13				
Smuts*, Periconia, Myxomycetes*	1	13	2	27			1	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Background debris (1-4+)††	3+		3+		1+		3+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	40		13		< 13		< 13	
Skin cells (1-4+)	< 1+		2+		< 1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		2,000		40		< 13		13

Comments: A) Analysis of replicate sample is delayed. B) No spores detected. Analysis of replicate sample is delayed. \* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

<sup>†</sup> The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

<sup>††</sup>Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

<sup>‡</sup> A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

<sup>§</sup> Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

880 Riverside Parkway, West Sacramento, CA 95605 (866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: LaCroix Davis, LLC

C/O: Mr. Chris Corpuz, Mr. Ted Ice, Mr. Ashley

McKinley, Ms. Andrea Steinbach Re: DGS-BOE; Fire Riser Cabinets Date of Sampling: 04-17-2010 Date of Receipt: 04-17-2010 Date of Report: 04-17-2010

#### SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	2372-417-FR-A05: 2372-417- Floor 10 SE Stairs Floor 11 S			SE Stairs	Floor 11	SE Stairs	2372-417-FR-A0 Exterior SW			
	Cont	ainment	An	nbient	Cont	ainment				
Comments (see below)	A			A		A		A		
Lab ID-Version‡:	287	6219-1	287	6220-1	287	6221-1	2876222-1			
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3		
Alternaria										
Arthrinium										
Ascospores*							4	210		
Aureobasidium										
Basidiospores*			1	53			25	1,300		
Bipolaris/Drechslera group										
Botrytis										
Chaetomium										
Cladosporium							22	1,200		
Curvularia										
Epicoccum										
Fusarium										
Nigrospora										
Oidium							1	13		
Other brown					1	13				
Penicillium/Aspergillus types†							1	53		
Pithomyces										
Rusts*	1	13	3	40						
Smuts*, Periconia, Myxomycetes*							3	40		
Stachybotrys										
Stemphylium										
Torula										
Ulocladium										
Background debris (1-4+)††	1+		4+		2+		2+			
Hyphal fragments/m3	< 13		< 13		< 13		< 13			
Pollen/m3	27		13		< 13		93			
Skin cells (1-4+)	< 1+		2+		< 1+		< 1+			
Sample volume (liters)	75		75		75		75			
§ TOTAL SPORES/m3		13		93		13		2,800		

Comments: A) Analysis of replicate sample is delayed.

\* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi.

Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

<sup>†</sup> The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

<sup>††</sup>Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.

<sup>‡</sup> A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

<sup>§</sup> Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Client: LaCroix Davis, LLC

C/O: Mr. Chris Corpuz, Mr. Ted Ice, Mr. Ashley

McKinley, Ms. Andrea Steinbach Re: DGS-BOE; Fire Riser Cabinets Date of Sampling: 04-17-2010 Date of Receipt: 04-17-2010 Date of Report: 04-17-2010

# MoldRANGE<sup>TM</sup>: Extended Outdoor Comparison Outdoor Location: 2372-417-FR-A01, Exterior SW

Fungi Identified	Outdoor	Туріса	al Outdoo	r Data by	Date†	Typical Outdoor Data by Location:							
	data		Month	ı: April			e: CA						
	spores/m3	low	med	high	high freq %		med	high	freq %				
Generally able to grow indoors*													
Alternaria	-	7	27	210	42	7	27	230	56				
Bipolaris/Drechslera group	-	7	13	140	11	7	13	130	13				
Chaetomium	-	7	13	120	12	7	13	120	20				
Cladosporium	270	27	290	4,200	90	53	610	7,100	97				
Curvularia	-	7 13		230	7	7	13	230	7				
Nigrospora	-	7	7 13		8	7	13	170	8				
Penicillium/Aspergillus types	160	13	160	1,500	71	33	210	2,400	85				
Stachybotrys	-	7	13	600	3	7	13	270	5				
Torula	-	7	13	170 10		7	13	150	12				
Seldom found growing indoors**													
Ascospores	210	13	110	2,900	74	13	110	2,000	70				
Basidiospores	1,300	13	210	5,800	88	13	210	8,200	93				
Oidium	-	7	7 17		20	7	13	190	20				
Rusts	13	7	13	250	20	7	13	260	27				
Smuts, Periconia, Myxomycetes	13	7	33	33 430		8	40	510	69				
§ TOTAL SPORES/m3	2,000												

<sup>†</sup> The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

<sup>‡</sup> The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

<sup>§</sup> Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

<sup>\*</sup>The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

<sup>\*\*</sup>These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

880 Riverside Parkway, West Sacramento, CA 95605 (866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: LaCroix Davis, LLC

C/O: Mr. Chris Corpuz, Mr. Ted Ice, Mr. Ashley

McKinley, Ms. Andrea Steinbach Re: DGS-BOE; Fire Riser Cabinets Date of Sampling: 04-17-2010 Date of Receipt: 04-17-2010 Date of Report: 04-17-2010

# MoldRANGE<sup>TM</sup>: Extended Outdoor Comparison Outdoor Location: 2372-417-FR-A08, Exterior SW

Fungi Identified	Outdoor	Туріса	al Outdoo	r Data by	Date†	Typical Outdoor Data by Location:							
	data		Month	ı: April			State	e: CA					
	spores/m3	low	med	high	high freq %		low med		freq %				
Generally able to grow indoors*													
Alternaria	-	7	27	210	42	7	27	230	56				
Bipolaris/Drechslera group	-	7	13	140	11	7	13	130	13				
Chaetomium	-	7	13	120	12	7	13	120	20				
Cladosporium	1,200	27	290	4,200	90	53	610	7,100	97				
Curvularia	-	7	7 13		7	7	13	230	7				
Nigrospora	-	7	7 13		8	7	13	170	8				
Penicillium/Aspergillus types	53	13	160	1,500	71	33	210	2,400	85				
Stachybotrys	-	7	13	600	3	7	13	270	5				
Torula	-	7	13	170 10		7	13	150	12				
Seldom found growing indoors**													
Ascospores	210	13	110	2,900	74	13	110	2,000	70				
Basidiospores	1,300	13	210	5,800	88	13	210	8,200	93				
Oidium	13	7	7 17		20	7	13	190	20				
Rusts	-	7	13	250	20	7	13	260	27				
Smuts, Periconia, Myxomycetes	40	7	33	430	58	8	40	510	69				
§ TOTAL SPORES/m3	2,800												

<sup>†</sup> The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

<sup>‡</sup> The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

<sup>§</sup> Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

<sup>\*</sup>The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

<sup>\*\*</sup>These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

(Dear (pipage aseatg) ADF

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Water, Bulk, Dust, Soil, Contact Plate BioCassette " Anderson, SAS, Swab, RECEIVED BY 3-Media Surface Fungi (Genus ID + Asp. 1991.) 2-Adedia Surface Fungi (Genus ID + Asp. spp.) Swub max3 positQ topo⊃ snoq2 svitesitnauΩ 퍥 훒 Direct Microscopic Beam (Qualitative) Spore 퉏 estained rad#O - sizytenA genT aroq2 CUATES TIME weekinds, will be considered received the next huginess day Pleasa alem us in advance of Weekend analysis need METES TURN ARCHIND TIME CODES (CAT) REPRODUSHED BY Moderate enral cortacts Heavy Volumes/Area 夢 C. Lor puz; T. 1 Ca; A. Stein Backy AMCKIRHEN Mountebra: buyetter Tava SD - Same Business Day Rush STD - Standard (DEFAULT) 7/2 ţ チ 3 40 ## 1161 3 t WH Weekend/Holiday ND - Net Business Day CONTACT INFORMATION 15898 ANDER San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 \* (866) 888-6653 Phoening AZ, 1501 West Knedson Drive, Phoenix, AZ 85027 \* (800) 651-4802 Cherry Hill, Nj. 1936 Olney Avenue, Cherry Hill, NJ 08003 \* (866) 871-1984 Sa US Contained a

/Z40

Sampling 4/17/10

2372,03-572

PO Number Zip Code:

Description

Project Desc. Fire Riser Cabinets

DG5-BOE

Project ID:

PROJECT INFORMATION

925.299.1140

Phone:

COMPANY FOLK DAVIS, LLC

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www.EMLabPK.com

None

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Other Requests

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Onc. #150170 Sec 24 Resided: 6/23/09 Page 1 of 1, QAD

DATE STIME

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S-OS

5W-5wab

B - Bulk

P - Pocable Water

SAS - Surface Air Sampler

BC · BioCassette A15 - Andersen CP · Contact Plate

NP - Non-Potable Water | O - Other

D-Dust

T-Tape

SAMPLE TYPECODES ST - Տրու<del>ս Тուր, Ζ</del>οίσ*ո*,



Report for:

Mr. Chris Corpuz, Mr. Ted Ice, Mr. Ashley McKinley, Ms. Andrea Steinbach LaCroix Davis, LLC 3685 Mt. Diablo Blvd. Suite 210 Lafayette, CA 94549

Regarding: Project: DGS-BOE; Floor 11

EML ID: 786438

Approved by:

Dates of Analysis:

Direct microscopic exam (Qualitative): 05-21-2011

Lab Manager Malcolm Moody

Service SOPs: Direct microscopic exam (Qualitative) (I100005)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Document Number: 200091 - Revision Number: 5

EMLab P&K, LLC EMLab ID: 786438, Page 1 of 2

880 Riverside Parkway, West Sacramento, CA 95605 (866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: LaCroix Davis, LLC

C/O: Mr. Chris Corpuz, Mr. Ted Ice, Mr. Ashley

McKinley, Ms. Andrea Steinbach

Re: DGS-BOE; Floor 11

Date of Sampling: 05-21-2011 Date of Receipt: 05-21-2011 Date of Report: 05-21-2011

#### DIRECT MICROSCOPIC EXAMINATION REPORT

(Wet Mount)

Background Debris and/or Description	Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression				
Lab ID-Version‡: 3482554-1: Bulk sample 2372-521-SF11B01: Col. J-21 South								
Miscellaneous debris	Very few	None	None	Normal trapping				

<sup>‡</sup> A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

EMLab P&K, LLC EMLab ID: 786438, Page 2 of 2

000786438 Other Requests ელ (Jena Ajicods aseayd) გეგ DATERTIME (ATT-59-A\000 borbam A93) MJ9 - sizylanA sozzadaA Asbestos Anglysis - PCM Airborne Fiber Count (NIOSH 7400) REQUESTED SERVICES (N. Boxas) QuantiTray - Sewage Screen Warer, Bulk, Dust, Soil, Contact Plate BioCassette "Andersen, SAS, Swab, MPM Bacceria (Please specify organism) (meinagra ylitesta senald) unituralit enenderieM Total Coliform, E.mii (Presence/Absence) Culturable Cream Stain and Counts (Culturable Air and Surface Bacteria) Culturable Air Fungi (Genus ID + Asp. spp.) 6-Media Surface Pungi (كعديمة Pi + Apr. 1944). 2-Media Surface Fungi (Cenus Ol + App. pp.) 1000 ا • Media Surface Fungi (Genus ID + App. pp. ) Swab Bulk Quantitative Spore Count Direct Etam ř Oirect Microscopic Board (Qualitative) Spore Trap ed Sinseq with - sitylenA quit snoq2 aizylarıA quril shoq2 - ignu귀 DATE & TIME exerced the next business day P-15 weekendanahalenced Snow Ę 3 WEATHER Light Moderate theorytes Address Not. Mablo Blue Volume/Area (as applicable) None Heavy THE suran Contreto Special Instruction of grant of the A 19791 SD - Same Busingss Day Rush STD - Standard (DEFAULT) CHAIN OF CUSTODY 🔇 EMLAD P&K WH-Weekend/Holiday ND - Next Business Day CONTACTINFORMATION San Bruno, CA: 1150 Buyhill Drive, #100, San Brano, CA 94066 \* (866) 888-6653 D-Dust 50 - Soil Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 \* (800) 651-4802 Сһөту Hill, NJ: 1936 Olney Avenue, Cherry Hill, NJ 08003 \* (866) 871-1984 12. SW - Swab NP · Non-Porable Water 3 O · Other: T-Tape B-Bulk Col. J.Z. SAMPLETIPECODES ST - Spore Trap: Zeľun, 1) /12/5 Date & Time 5/2 (/1 Corput, Tile, A. Stanford Allergenco, Burkand... PROJECE INFORMATION P - Pocable Water 2572 521 SFILE Phone: 925.249.1140 Project Desc.: Flage | Sampling LA GONK DRIVIS, LLC 2372.02 Project ID: 765-704 www.EMLabPK.com SAS - Surface Air Sampler CP - Contact Plate BC - BioCassette A15 - Andersen PO Number: Zip Code

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Commission 3000 winds can all now



Report for:

Mr. Chris Corpuz, Mr. Ted Ice, Mr. Ashley McKinley, Ms. Andrea Steinbach LaCroix Davis, LLC 3685 Mt. Diablo Blvd. Suite 210 Lafayette, CA 94549

Regarding: Project: DGS-BOE; Floor 11

EMĹ ID: 803580

Approved by:

Lab Manager Malcolm Moody REVISED REPORT

Dates of Analysis: Direct microscopic exam (Qualitative): 07-18-2011

Service SOPs: Direct microscopic exam (Qualitative) (I100005)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the items tested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Document Number: 200091 - Revision Number: 5

EMLab P&K, LLC EMLab ID: 803580, Page 1 of 2

880 Riverside Parkway, West Sacramento, CA 95605 (866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: LaCroix Davis, LLC

C/O: Mr. Chris Corpuz, Mr. Ted Ice, Mr. Ashley

McKinley, Ms. Andrea Steinbach

Re: DGS-BOE; Floor 11

Date of Sampling: 07-10-2011 Date of Receipt: 07-11-2011 Date of Report: 07-12-2011

#### DIRECT MICROSCOPIC EXAMINATION REPORT

(Wet Mount)

Miscellaneous Spores Present*	MOLD GROWTH: Molds seen with underlying mycelial and/or sporulating structures†	Other Comments††	General Impression					
Lab ID-Version‡: 3559561-2: Bulk sample 2372-710-F11-B02: Stain FP 8' W K19 AC								
Very few	None	None	Normal trapping					
Lab ID-Version: 3559562-2: Tape sample 2372-710-F11-T01: Stain Pipe Wrap 8' W K19 AC								
Very few	None	None	Normal trapping					
	Spores Present*  559561-2: Bulk san  Very few  559562-2: Tape sam	Spores Present* with underlying mycelial and/or sporulating structures†  559561-2: Bulk sample 2372-710-F11-B02: Stain FP 8' W  Very few None  559562-2: Tape sample 2372-710-F11-T01: Stain Pipe Wra	Spores Present* with underlying mycelial and/or sporulating structures†  S559561-2: Bulk sample 2372-710-F11-B02: Stain FP 8' W K19 AC  Very few None None  S59562-2: Tape sample 2372-710-F11-T01: Stain Pipe Wrap 8' W K19 AC					

<sup>\*</sup> Indicative of normal conditions, i.e. seen on surfaces everywhere. Includes basidiospores (mushroom spores), myxomycetes, plant pathogens such as ascospores, rusts and smuts, and a mix of saprophytic genera with no particular spore type predominating. Distribution of spore types seen mirrors that usually seen outdoors.

<sup>†</sup> Quantities of molds seen growing are listed in the MOLD GROWTH column and are graded 1+ to 4+, with 4+ denoting the highest numbers.

<sup>††</sup> Some comments may refer to the following: Most surfaces collect a mix of spores which are normally present in the outdoor environment. At times it is possible to note a skewing of the distribution of spore types, and also to note "marker" genera which may indicate indoor mold growth. Marker genera are those spore types which are present normally in very small numbers, but which multiply indoors when conditions are favorable for growth.

<sup>‡</sup> A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 \* (866) 888-6653 Cherry Hill, Mr. 1936 Othey Avenue, Cherry Hill, NJ 08003 \* (866) 871-1984 Phoenix, AZr. 1501 West Knudsen Drive, Phoenix, AZ 85027 \* (800) 651-4802

000803580 Other Requests PEQUESTED SERVATS (7 Box Water, Bulk, Dust, Soil, Contact Place BioCassette "Andersen, SAS, Swab, Tage Seeb 出る Spere. Trap Snow | Wind | Clear WEATHERE Pug Rain Moderate Moderate None |

Fungi - Spore Trap Analysis - Other particles Spore Trap Analysis - Other particles Other particles Other particles T-Media Surface Fungi (Genus ID + Asp. app.)  2-Media Surface Fungi (Genus ID + Asp. app.) 3-Media Surface Fungi (Genus ID + Asp. app.) Culturable Air Fungi (Genus ID + Asp. app.) Culturable Air Fungi (Genus ID + Asp. app.)  Culturable Air Fungi (Genus ID + Asp. app.)  Control Stain and Counts (Culturable Air and Surface Bacteria)  Lecal Cultionn, E. mi. (Presence/Absence)  Membrane Filteration (Phase specify organism)  Membrane Filteration (Phase specify organism)  Membrane Filteration (Phase specify organism)  Asbestos Analysis - PCM Airborne Fiber Count (MIOSH 7400)  Asbestos Analysis - PAM Airborne Fiber Count (MIOSH 7400)  Asbestos Analysis - PAM (EPA method 600/R-93-116)		X					~~	M AT 1 TO SERVICE AT THE SECOND SECON	MANAGE TO STONE		
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